## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## LISTING OF CLAIMS

- 1. (currently amended) A nonvolatile memory comprising:
- a memory array unit having a plurality of nonvolatile memory cells;
  - a control unit; and
- a voltage generating unit for supplying voltages to said nonvolatile memory cells,

wherein said nonvolatile memory cells store information corresponding to <a href="mailto:the-a">the-a</a> quantity of electric charges in a floating gate of each nonvolatile memory cell,

wherein said control unit controls a write operation to store information into said nonvolatile memory cells+, a read operation to read information stored in said nonvolatile memory cells; and an erase operation to erase information stored in said nonvolatile memory cells,

wherein said voltage generating unit has an erase voltage generating unit for generating, in accordance with control from said control unit, erase voltages to be applied to said nonvolatile memory cells in said erase operation, and

wherein said erase voltage generating unit generates,

on the basis of in response to a control signal supplied

from said control unit, erase voltages of two or more levels

including a lower erase voltage and a higher erase voltage,

and

wherein said control unit performs control such that in said erase operation the lower erase voltage is applied applying them to a control gate of each of said nonvolatile memory cells and thereafter the higher erase voltage is applied to the control gate of each of said nonvolatile memory cells.

- 2. (currently amended) A nonvolatile memory comprising:
- a memory array unit having a plurality of nonvolatile memory cells;
  - a control unit; and
- a voltage generating unit for supplying voltages to said nonvolatile memory cells,

wherein said nonvolatile memory cells store information corresponding to <a href="mailto:the-a">the-a</a> quantity of electric charges in a floating gate of each nonvolatile memory cell,

wherein said control unit controls a write operation to store information into said nonvolatile memory cells; a read operation to read information stored in said

nonvolatile memory cells; and an erase operation to erase information stored in said nonvolatile memory cells,

wherein said voltage generating unit has an erase voltage generating unit for generating, in accordance with control from said control unit, erase voltages to be applied to said nonvolatile memory cells in said erase operation, and

wherein said erase voltage generating unit generates, on the basis of in response to a control signal supplied from said control unit, erase voltages of two or more levels to make the voltages applied to the tunnel films of said nonvolatile memory cells substantially constant and applies them the erase voltages selectively to a control gate of each of said nonvolatile memory cells.

3. (currently amended) The nonvolatile memory according to Claim 2, wherein said control unit performs control to verify erase voltage generating unit, after applying erase voltages of two or more different levels to said control gates of whether information stored in said nonvolatile memory cells, verifies the erase is erased after a plurality of the erase voltages have been applied to the control gate of each of said nonvolatile memory cells.

- 4. (original) The nonvolatile memory according to Claim 3, wherein, out of the erase voltages generated by said erase voltage generating unit, a first voltage level of an erase voltage first applied to said control gate of any of said nonvolatile memory cell is the lowest, and each of the erase voltages applied second and afterwards is higher in level than the erase voltage applied immediately before.
- 5. (cancelled).
- 6. (cancelled).
- 7. (cancelled).
- 8. (currently amended) A nonvolatile memory comprising, on one semiconductor substrate.
  - a memory array unit;
  - a control unit; and
  - a voltage generating unit,

wherein said memory array unit has a plurality of word lines and a plurality of nonvolatile memory cells,

wherein each of the said nonvolatile memory cells has includes a first terminal connected to a first semiconductor region, a second terminal connected to a second

semiconductor region; and a third terminal connected to a control gate;

wherein there a channel region is disposed between said first semiconductor region and said second semiconductor region, an electric charge accumulating region above a channel region—is disposed between the control gate and the channel region, between said first semiconductor region and said second semiconductor region and between it and said control gate; and there is a first insulating film is disposed between the electric charge accumulating region and the channel region,

wherein the third terminal of at least one <u>said</u> nonvolatile memory cell is connected to each word line,

wherein data are stored into each nonvolatile memory cell according to the a quantity of electric charges accumulated in said electric charge accumulating region; and the quantity of electric charges is controlled by the control of said control unit over performing a first operation to inject electric charges into said electric charge accumulating region and a second operation to eject electric charges out of from said electric charge accumulating region,

wherein, in order to perform said second operation, a first\_voltage generated by said voltage generating unit is

applied between said control gate and said channel region
via a word line connected to the control gate, and

wherein, during the a period of said second operation,

the said first voltage generated by said voltage generating

unit is varied twice two or more times, so as to keep the

voltage applied to said first insulating film within a

predetermined first voltage range.

9. (currently amended) The nonvolatile memory according to Claim 8.

wherein, during said first operation, the a second voltage generated by said voltage generating unit is applied between said control gate and said channel region via a the word line connected to the control gate, and

wherein, during said first operation, the said second voltage generated by said voltage generating unit is varied.

10. (currently amended) The nonvolatile memory according to Claim 9, wherein, the said first voltage applied between said control gate and said channel region in said first operation differs in polarity from the said second voltage applied between said control gate and said channel region in said second operation.

11. (currently amended) The nonvolatile memory according to Claim 10,

wherein the threshold voltage of the each nonvolatile memory cells is varied according to the quantity of electric charges accumulated in said electric charge accumulating region so as to be included in a plurality of threshold voltage distributions according to data to be stored into said nonvolatile memory cells,

wherein in said first operation, the threshold voltage of the at least one said nonvolatile memory cells are connected to one word line is moved into a first threshold voltage distribution, and a first determination is made during said first operation as to whether or not the threshold voltage of the said at least one nonvolatile memory cells are is moved within said first threshold voltage distribution, and

wherein in said second operation, the threshold voltages of all of the nonvolatile memory cells connected to said one word line are moved into a second threshold voltage distribution, and a second determination is made during said second operation as to whether or not the threshold voltages of the those nonvolatile memory cells are moved within said second threshold voltage distribution[[,]]

wherein said threshold voltage of at least one of a plurality of nonvolatile memory cells connected to one word line is moved, in said first operation, and

wherein said threshold voltages of all of the plural nonvolatile memory cells connected to one word line are moved, in said second operation.

- 12. (new) The nonvolatile memory according to Claim 1, wherein said control unit performs control to verify whether information stored in said nonvolatile memory cells is erased after said higher erase voltage has been applied to the control gates of said nonvolatile memory cells.
- 13. (new) The nonvolatile memory according to Claim 12, wherein the level of said lower erase voltage is lower than the levels of other erase voltages generated by said voltage generating unit.